

1. Evaluate the following absolute value expressions:

a. $|-24|$ b. $-|-32|$ c. $-|13|$

2. Add or subtract as indicated:

a. $-10 + (-2) + 7$ b. $12 - 22$ c. $2 + 5 - 8$

3. Perform the operations indicated:

a. $-7 - 2 + (-4)$ b. $-23 - 2 - (-4) + (-8)$

4. Multiply:

a. $-8(-9)$ b. $6(-5)$ c. $(-2)(-7)(4)$

5. Divide:

a. $\frac{-72}{8}$ b. $\frac{0}{9}$ c. $\frac{-11}{0}$ d. $\frac{-22}{-2}$

6. Identify the following expressions as:

A. Commutative Property
B. Associative Property
C. Distributive Property

a. $(m + 7) + 5 = m + (7 + 5)$ b. $m + 8 = 8 + m$ c. $3m + 12 = 3(m + 4)$

7. Perform the operations indicated.

a. $10 - 12 \div 6(3)^2 + 5$ b. $\frac{-7 - (13)}{[3(-2)^2 + (-5)2]}$ c. $-(3)^2 - 7 + 4(-2)$

8. Simplify by combining like terms:

a. $6y - 40x + 12xy + 22y - 11x$ b. $3mn - 15m + 11n - 2mn + 8m$

9. Evaluate the following expressions for the given value:

a. $y^2 + 5y + 1$ for $y = -4$ b. $5n - 3m$ for $n = -4$ and $m = -2$

c. $\frac{x^2 + y^2}{-5}$ for $x = -2$ and $y = 1$

10. Find the perimeter of a picture frame that is 11 in by 20 in.

Answers to Math 302 Practice Test 1

1. a. 24
b. -32
c. -13
2. a. -5
b. -10
c. -1
3. a. -13
b. -29
4. a. 72
b. -30
c. 56
5. a. -9
b. 0
c. undefined
d. 11
6. a. B
b. A
c. C
7. a. -3
b. -10
d. -24
8. a. $28y+12xy-51x$
b. $mn-7m+11n$
9. a. -3
b. -14
c. -1
10. 62 in.